

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 18, 2004, 06:01:47 ; Search time 42 Seconds
(without alignments)
1220.789 Million cell updates/sec

Title: US-09-966-880A-8
Perfect score: 1086
Sequence: 1 MDSLMMRRKFLYQFQVNRK.....ILLPLVEVDLDAFRTGL 198

Scoring table: BLOSUM62
Gap 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues
Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA.*
1: /cgn2_6/prodata/2/pubppa/US07_PUBCOMB.pep.*
2: /cgn2_6/prodata/2/pubppa/PCF_NEW_PUB.pep.*
3: /cgn2_6/prodata/2/pubppa/US06_NEW_PUB.pep.*
4: /cgn2_6/prodata/2/pubppa/US06_PUBCOMB.pep.*
5: /cgn2_6/prodata/2/pubppa/US07_NEW_PUB.pep.*
6: /cgn2_6/prodata/2/pubppa/PCFUS_PUBCOMB.pep.*
7: /cgn2_6/prodata/2/pubppa/US08_NEW_PUB.pep.*
8: /cgn2_6/prodata/2/pubppa/US08_PUBCOMB.pep.*
9: /cgn2_6/prodata/2/pubppa/US09_PUBCOMB.pep.*
10: /cgn2_6/prodata/2/pubppa/US09B_PUBCOMB.pep.*
11: /cgn2_6/prodata/2/pubppa/US09C_PUBCOMB.pep.*
12: /cgn2_6/prodata/2/pubppa/US09_NEW_PUB.pep.*
13: /cgn2_6/prodata/2/pubppa/US10A_PUBCOMB.pep.*
14: /cgn2_6/prodata/2/pubppa/US10B_PUBCOMB.pep.*
15: /cgn2_6/prodata/2/pubppa/US10C_PUBCOMB.pep.*
16: /cgn2_6/prodata/2/pubppa/US10_NEW_PUB.pep.*
17: /cgn2_6/prodata/2/pubppa/US60_NEW_PUB.pep.*
18: /cgn2_6/prodata/2/pubppa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1086	100.0	198	9	US-09-966-880A-8
2	1008	92.8	198	9	US-09-966-880A-2
3	390	35.9	189	15	US-10-460-923-5
4	390	35.9	184	9	US-09-729-674-174
5	390	35.9	384	15	US-10-460-923-2
6	369.5	34.5	222	9	US-09-925-300-1639
7	363.5	33.5	199	15	US-10-460-923-7
8	349	32.1	210	15	US-10-460-923-4
9	300	27.6	152	14	US-10-247-671-159
10	238.5	22.0	195	15	US-10-460-923-3
11	230	21.2	219	15	US-10-460-923-6
12	218.5	20.1	226	14	US-10-157-031-14
13	216.5	19.9	226	15	US-10-460-923-8
14	211	19.4	229	9	US-09-966-880A-36
15	198	18.2	127	15	US-10-104-047-3729

16	167	15.4	128	15	US-10-378-029-77	Sequence 77, Appl
17	154	14.2	151	14	US-10-029-386-34155	Sequence 34155, A
18	84	7.7	51	9	US-09-864-761-18853	Sequence 18853, A
19	81	7.5	440	13	US-10-120-319-3	Sequence 3, Appl
20	81	7.5	440	14	US-10-189-977-3	Sequence 3, Appl
21	81	7.5	440	14	US-10-382-098-3	Sequence 15, Appl
22	80	7.4	476	9	US-09-733-524-15	Sequence 15, Appl
23	80	7.4	476	13	US-10-120-319-5	Sequence 5, Appl
24	80	7.4	476	14	US-10-189-977-5	Sequence 5, Appl
25	80	7.4	476	14	US-10-382-098-5	Sequence 5, Appl
26	77.5	7.1	261	10	US-09-851-873-55	Sequence 6748, Ap
27	77.5	7.1	328	15	US-10-369-493-6748	Sequence 14, Appl
28	77.5	7.1	663	13	US-10-080-960-14	Sequence 15, App
29	77.5	7.1	663	14	US-10-247-671-135	Sequence 164, App
30	77	7.0	790	14	US-10-153-668-164	Sequence 13617, A
31	76.5	7.0	122	12	US-10-424-599-143617	Sequence 182345, A
32	76.5	7.0	214	12	US-10-424-599-182345	Sequence 47947, A
33	76.5	7.0	223	12	US-10-425-114-47947	Sequence 25, Appl
34	75.5	7.0	382	10	US-09-847-308-25	Sequence 4, Appl
35	75	6.9	330	14	US-10-265-593-4	Sequence 63, Appl
36	75	6.9	354	12	US-10-087-684-63	Sequence 615, App
37	75	6.9	354	12	US-10-218-779-63	Sequence 581, App
38	75	6.9	354	12	US-10-072-012-615	Sequence 65, Appl
39	75	6.9	401	12	US-10-072-012-581	Sequence 61, Appl
40	74	6.8	200	10	US-09-851-873-65	Sequence 122, App
41	74	6.8	707	15	US-10-014-099P-61	Sequence 42048, A
42	74	6.8	1291	15	US-10-452-024-122	Sequence 48829, A
43	73.5	6.8	257	12	US-10-425-114-42048	Sequence 68246, A
44	73.5	6.8	427	12	US-10-425-114-48829	
45	73	6.7	336	12	US-10-282-122A-68246	

ALIGNMENTS

US-09-966-880A-8	US-10-378-029-77
Sequence 8, Application US/09966880A	Sequence 34155, A
Patent No. US2002016473A1	Sequence 18853, A
GENERAL INFORMATION:	Sequence 3, Appl
APPLICANT: Honjo, Tasuku	Sequence 3, Appl
APPLICANT: Muramatsu, Masamichi	Sequence 15, Appl
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE	Sequence 5, Appl
FILE REFERENCE: 06501-088001	Sequence 5, Appl
CURRENT APPLICATION NUMBER: US/09/966, 880A	Sequence 5, Appl
CURRENT FILING DATE: 2001-09-28	Sequence 5, Appl
PRIOR APPLICATION NUMBER: PCT/JP00/01918	Sequence 5, Appl
PRIOR FILING DATE: 2000-03-28	Sequence 5, Appl
PRIOR APPLICATION NUMBER: JP 11-371382	Sequence 5, Appl
PRIOR FILING DATE: 1999-12-27	Sequence 5, Appl
PRIOR APPLICATION NUMBER: JP 11-178999	Sequence 5, Appl
PRIOR FILING DATE: 1999-06-24	Sequence 5, Appl
PRIOR APPLICATION NUMBER: JP 11-87192	Sequence 5, Appl
PRIOR FILING DATE: 1999-03-29	Sequence 5, Appl
NUMBER OF SEQ ID NOS: 36	Sequence 5, Appl
SOFTWARE: FastSeq for Windows Version 4.0	Sequence 5, Appl
SEQ ID NO 8	Sequence 5, Appl
LENGTH: 198	Sequence 5, Appl
TYPE: PRT	Sequence 5, Appl
ORGANISM: Homo sapiens	Sequence 5, Appl
US-09-966-880A-8	Sequence 5, Appl
Query Match	Sequence 5, Appl
Best Local Similarity 100.0%; Score 1086; DB 9; Length 198;	Sequence 5, Appl
Mismatches 0; Gaps 0; Indels 0; Caps 0;	Sequence 5, Appl
Matches 198; Conservativity 0; Mismatches 0; Indels 0; Caps 0;	Sequence 5, Appl
1 MDSLMMRRKFLYQFQVNRK.....ILLPLVEVDLDAFRTGL 60	Sequence 5, Appl
1 MDSLMMRRKFLYQFQVNRK.....ILLPLVEVDLDAFRTGL 60	Sequence 5, Appl
61 FLRTISMDLDPGRCYEVWFTSWSPCYDCARHVADELKRNPNLSLRTFARLYFCEDRK 120	Sequence 5, Appl
61 FLRTISMDLDPGRCYEVWFTSWSPCYDCARHVADELKRNPNLSLRTFARLYFCEDRK 120	Sequence 5, Appl
61 FLRTISMDLDPGRCYEVWFTSWSPCYDCARHVADELKRNPNLSLRTFARLYFCEDRK 120	Sequence 5, Appl

QY 121 AEEBGLRLHRAAGVQIAIMTFKDYFCWNTFVFNHRTFKAMEGLHENSRLSRQLRRL 180
DB 121 AEEBGLRLHRAAGVQIAIMTFKDYFCWNTFVFNHRTFKAMEGLHENSRLSRQLRRL 180
QY 181 LPLYEVDLRLDARFTLGL 198
DB 181 LPLYEVDLRLDARFTLGL 198

RESULT 2

US-09-966-880a-2
Sequence 2, Application US/09966880A
Patent No. US20020164743A1
GENERAL INFORMATION:
APPLICANT: Honjo, Takuu
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 198
TYPE: PRT
ORGANISM: Mus musculus
US-09-966-880a-2

Query Match 92.8%; Score 1008; DB 9; Length 198;
Best Local Similarity 92.8%; Pred. No. 4,8e-105;
Matches 183; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSBLNMRKRTLYQFNKVRWAKRRRTYLCYVVKRDSATSPSLDGYLRNKGCHVELL 60
DB 1 MSBLNMRKRTLYQFNKVRWAKRRRTYLCYVVKRDSATSPSLDGYLRNKGCHVELL 60
QY 61 FLRYISDMDIDPGRCYRVWTFTSMSPCYDCARHVADEFLGNPMLSLRIFTARLYFCEDRK 120
DB 61 FLRYISDMDIDPGRCYRVWTFTSMSPCYDCARHVADEFLGNPMLSLRIFTARLYFCEDRK 120
QY 121 AEEBGLRLHRAAGVQIAIMTFKDYFCWNTFVFNHRTFKAMEGLHENSRLSRQLRRL 180
DB 121 AEEBGLRLHRAAGVQIAIMTFKDYFCWNTFVFNHRTFKAMEGLHENSRLSRQLRRL 180
QY 181 LPLYEVDLRLDARFTLGL 197
DB 181 LPLYEVDLRLDARFTLGL 197

RESULT 3

US-10-460-923-5
Sequence 5, Application US/10460923
Publication No. US20040009951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT APPLICATION NUMBER: US/10/460,923

;; CURRENT FILING DATE: 2003-06-13
;; PRIOR APPLICATION NUMBER: US 60/368,513
;; PRIOR FILING DATE: 2002-06-13
;; PRIOR APPLICATION NUMBER: US 60/472,952
;; PRIOR FILING DATE: 2003-05-23
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 5
;; LENGTH: 189
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-460-923-5

Query Match 35.9%; Score 390; DB 15; Length 189;
Best Local Similarity 44.9%; Pred. No. 1.5e-35;
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;

QY 6 MNRKFLYQFNKVRWAKRRRTYLCYVVKRDSATSPSLD-FGYLRNK-----NGC 55
DB 2 MDPPTFFNFNNEPFWAGRHETLYCYVEHNDTWLNLQRRGFLCNQAPHKGFLEGR 61
QY 56 HVELLFRLYISDMDIDPGRCYRVWTFTSMSPCYDCARHVADEFLGNPMLSLRIFTARLYF 115
DB 62 HAEICFLDVIPEWKLDDDDYRVYCTFTSMSPCYDCARHVADEFLGNPMLSLRIFTARLYF 120
QY 116 CEDKAEPEGLRLHRAAGVQIAIMTFKDYFCWNTFVFNHRTFKAMEGLHENSRLSRQ 175
DB 121 -DDGRCGEGRLTAEAGAKISIMTYERFKGCDTVDHGGCGCFQPMWGLDHSQDLGR 179
QY 176 LRLTL 180
DB 180 LRLTL 184

RESULT 4

US-09-729-674-174
Sequence 174, Application US/09729674
Patent No. US20010039335A1
GENERAL INFORMATION:
APPLICANT: McCoy, John M.
APPLICANT: Jacobs, Kenneth
APPLICANT: Lavalley, Edward R.
APPLICANT: Collins-Racle, Lisa A.
APPLICANT: Evans, Cheryl
APPLICANT: Merberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Agostino, Michael J.
APPLICANT: Steinger II, Robert J.
APPLICANT: Spaulding, Vikki
APPLICANT: Wong, Gordon G.
APPLICANT: Clark, Hilary
APPLICANT: Fechtel, Kim
APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
FILE REFERENCE: 6055-64X
CURRENT APPLICATION NUMBER: US/09/729,674
PRIOR APPLICATION NUMBER: 09/539,330
PRIOR FILING DATE: 2000-03-30
NUMBER OF SEQ ID NOS: 283
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 174
LENGTH: 384
TYPE: PRT
ORGANISM: Homo sapiens
US-09-729-674-174

Query Match 35.9%; Score 390; DB 9; Length 384;
Best Local Similarity 44.9%; Pred. No. 3.8e-35;
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;

QY 6 MNRKFLYQFNKVRWAKRRRTYLCYVVKRDSATSPSLD-FOYLRNK-----NGC 55
DB 6 MNRKFLYQFNKVRWAKRRRTYLCYVVKRDSATSPSLD-FOYLRNK-----NGC 55

Db 197 MDPTFTPNVNNPVRGRHETLYCYEVRMNDTWVLNQRGFLCNQAFHKGFLGR 256
Qy 56 HVELLFLRISWDLDPGRCYRTWTSTSPCYDCARHVADEFLRGNPNLSIRIFARLYF 115
Db 257 HAEICLGLDVIPEWKLDDLDYRTCTSTSPSCSCAQEAKRISKIKHSLCIFARLY- 315
Qy 116 CEDRKAEPEGLRLHRAVQVIAIMTFKDYFCMNTFVENHETPFKAMEGLHNSVRLSRQ 175
Db 316 -DDQGCQGLRLHRAVQVIAIMTFKDYFCMNTFVENHETPFKAMEGLHNSVRLSRQ 374
Qy 176 LRRIL 180
Db 375 LRRIL 379

RESULT 5

US-10-460-923-2
; Sequence 2, Application US/10460923
; Publication No. US20040009951A1
; GENERAL INFORMATION:
; APPLICANT: MALIM, Michael H.
; APPLICANT: SHEEHY, Ann M.
; APPLICANT: HARRIS, Reuben S.
; APPLICANT: BISHOP, Kate N.
; APPLICANT: NEUBERGER, Michael S.
; APPLICANT: GADDIS, Nathan C.
; APPLICANT: SIMON, James H.M.
; TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
; FILE REFERENCE: 22253-74380
; CURRENT APPLICATION NUMBER: US/10/460,923
; CURRENT FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/388,513
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 60/472,952
; PRIOR FILING DATE: 2003-05-23
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-460-923-2

Query Match 35.9%; Score 390; DB 15; Length 384;
Best Local Similarity 44.9%; Pred. No. 3.8e-35;
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;

Qy 6 NNRKFLVQFKVNRKGRRETYLCYVYKRDSTATSFSLD--FGYLRN-----NGC 55
Db 197 MDPTFTPNVNNPVRGRHETLYCYEVRMNDTWVLNQRGFLCNQAFHKGFLGR 256
Qy 56 HVELLFLRISWDLDPGRCYRTWTSTSPCYDCARHVADEFLRGNPNLSIRIFARLYF 115
Db 257 HAEICLGLDVIPEWKLDDLDYRTCTSTSPSCSCAQEAKRISKIKHSLCIFARLY- 315
Qy 116 CEDRKAEPEGLRLHRAVQVIAIMTFKDYFCMNTFVENHETPFKAMEGLHNSVRLSRQ 175
Db 316 -DDQGCQGLRLHRAVQVIAIMTFKDYFCMNTFVENHETPFKAMEGLHNSVRLSRQ 374
Qy 176 LRRIL 180
Db 375 LRRIL 379

RESULT 6

US-09-925-300-1639
; Sequence 1639, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben,
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101

; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/059988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1639
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-300-1639

Query Match 34.0%; Score 369.5; DB 9; Length 222;
Best Local Similarity 44.9%; Pred. No. 3.8e-33;
Matches 79; Conservative 24; Mismatches 64; Indels 9; Gaps 4;

Qy 11 FLYQFKVNRKGRRETYLCYVYK--RRDSATSFSLDFGLRN-----KNGCHELLFLRY 64
Db 49 FYQFKVLRMNDTWRNLTCTYEGIRGRSVSWKT--GVFRQVDSETHCHAECHLSW 106
Qy 65 ISWDLDPGRCYRTWTSTSPCYDCARHVADEFLRGNPNLSIRIFARLYFCEDRKAEPE 124
Db 107 FCDLILSPNTKYQVYTWSTSPSCDCAGEVAEFLARSHSNVLTIFARLYYFQ-YPCYOE 165
Qy 125 GLRLHRAVQVIAIMTFKDYFCMNTFVENHETPFKAMEGLHNSVRLSRQRLIL 180
Db 166 GLRLSOGVAIVMDYEDFKYCMENFVYNDNEPFKMKLTNFKRLRBSL 221

RESULT 7

US-10-460-923-7
; Sequence 7, Application US/10460923
; Publication No. US20040009951A1
; GENERAL INFORMATION:
; APPLICANT: MALIM, Michael H.
; APPLICANT: SHEEHY, Ann M.
; APPLICANT: HARRIS, Reuben S.
; APPLICANT: BISHOP, Kate N.
; APPLICANT: NEUBERGER, Michael S.
; APPLICANT: GADDIS, Nathan C.
; APPLICANT: SIMON, James H.M.
; TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
; FILE REFERENCE: 22253-74380
; CURRENT APPLICATION NUMBER: US/10/460,923
; CURRENT FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/388,513
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 60/472,952
; PRIOR FILING DATE: 2003-05-23
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 7
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-460-923-7

Query Match 33.5%; Score 363.5; DB 15; Length 199;
Best Local Similarity 43.5%; Pred. No. 1.6e-32;
Matches 83; Conservative 28; Mismatches 57; Indels 23; Gaps 7;

Qy 5 LNRKFLVQFKVNRKGRRETYLCYVYKRDSTATSFSLD--FGYLRN--KN-----G 54
Db 12 LMDPHLFTSNFN--GIGHKTYLCYEVERLDNGTSVKKDOHGFHNQAKNLGFGYG 68
Qy 55 HVELLFLRISWDLDPGRCYRTWTSTSPCYD--CARHVADEFLRGNPNLSIRIFARLY 112
Db 69 HAEICLGLDVIPEWKLDDLDYRTCTSTSPSCSCAQEAKRISKIKHSLCIFARLY- 128
Qy 113 LYFCEDRKAEPEGLRLHRAVQVIAIMTFKDYFCMNTFVENHETPFKAMEGLHNS 169

Db 129 Y-----DYDPLKALQMLRDAGQVSWTYDEFFKCHMDTFVDHGCGCFQPMWGLDENS 183
QY 170 VRLSRQLRRL 180
Db 184 QALSGRLRAL 194

RESULT 8
US-10-460-923-4
Sequence 4, Application US/10460923
Publication No. US2004000951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT APPLICATION NUMBER: US/10/460,923
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/388,513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472,952
PRIOR FILING DATE: 2003-05-23
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 210
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: mouse orthologue
US-10-460-923-4

Query Match 32.1%; Score 349; DB 15; Length 210;
Best Local Similarity 38.8%; Pred. No. 7,2e-31;
Matches 71; Conservative 36; Mismatches 72; Indels 4; Gaps 2;

QY 5 LMRRLKLYQPKVNRMAKGRRETYLCYVVRGDSATSFSDIFGLKNGCHVLLFLAY 64
Db 20 LISDTRKFFHKRLRYAIDRDKTFLLCYEVRKDCDSVSLHHGVFKKDIHAEICFLW 79
QY 65 ISD---WDLDPGRCYRTWFTSMSPCYDCARHYADFLRGPNLSLIFTLALYFCEDRKA 121
Db 80 FHDVLYKLSRREFKLTWMSWSPCECAEOYLRLFLATHNLSLDFSSRLYNIDPEN 139
QY 122 EPEGLRLHRAQVOIALMTFEDYFCWNTVENHERTFKAMEGLHENSVALSRQLRRL 161
Db 140 Q-QMLCRLVQEGAAVMDYEFKCKWKFKVDNGRRFRMKKLLTNFRYQDSKLOEILR 198
QY 182 PLY 184
Db 199 PCY 201

RESULT 9
US-10-247-671-159
Sequence 159, Application US/10247671
Publication No. US20030194721A1
GENERAL INFORMATION:
APPLICANT: Mikita, Thomas
APPLICANT: Shiftman, Dov
APPLICANT: Porter, Gordon, J.
APPLICANT: Kaseer, Matthew R.
TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS
FILE REFERENCE: PA-0050 US
CURRENT APPLICATION NUMBER: US/10/247,671
CURRENT FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: 60/323,784
PRIOR FILING DATE: 2001-09-19

NUMBER OF SEQ ID NOS: 186
SOFTWARE: PERL Program
SEQ ID NO 159
LENGTH: 152
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US20030194721A1 135626CD1
US-10-247-671-159

Query Match 27.6%; Score 300; DB 14; Length 152;
Best Local Similarity 44.9%; Pred. No. 1.6e-25;
Matches 66; Conservative 20; Mismatches 43; Indels 18; Gaps 5;

QY 47 GYLN--KN-----GCHVELLFRLYISDMDLDGRCYRTWFTSMSPCYD--CARHYAD 96
Db 6 GFLHQAKNLGCGFYGRVAFELFDLVPSLQDPAQYRYRTWFTSMSPCEWGAQEVRA 65
QY 97 FLRGPNLSLIFARLYFCEDRKAEP---EGLRLHRAQVOIALMTFEDYFCWNTFVE 153
Db 66 FLQENTHRLALIFARLY-----DYDPLKALQMLRDAGQVSWTYDEFFKCHMDTFVY 120
QY 154 NHERTFKAMEGLHENSVALSRQLRRL 180
Db 121 RQGCPCFQPMWGLDGHSHQALSGRLRAL 147

RESULT 10
US-10-460-923-3
Sequence 3, Application US/10460923
Publication No. US2004000951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT APPLICATION NUMBER: US/10/460,923
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: US 60/388,513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472,952
PRIOR FILING DATE: 2003-05-23
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 195
TYPE: PRT
ORGANISM: Homo sapiens
US-10-460-923-3

Query Match 22.0%; Score 238.5; DB 15; Length 195;
Best Local Similarity 34.2%; Pred. No. 1.8e-18;
Matches 63; Conservative 26; Mismatches 84; Indels 11; Gaps 6;

QY 6 MNRKFLYQPKVNRMAKGRRETYLCYVVRGDSATSFSLDF-----GYLRNKGCHVELLF 61
Db 12 MYRDFPSYFNFRPLSLRNVTWLCYEYKIGSPRP-PLDAKIFRGQVYSELKYNPEVRF 70
QY 62 LAYISDM-DLDPGRCYRTWFTSMSPCYDCARHYADFLRGPNLSLIFTLALYFCEDRK 120
Db 71 FHWFSKMKLHRDQGEYETWTSWSPCKCTRDVATFLAEDPKVTLILFVAKLYFMPD 130
QY 121 APEGLRLHRAQVOIALMTFEDYFCWNTVENHERTFKAMEGLHENSVALSRQL 176
Db 131 YQ-EALRLDCKRQDPRATMIMYDERGHGMSKVFYSQRLFPFNNLFXYYILHIML 189
QY 177 RRL 180

Db 190 GELT 193

RESULT 11

US-10-460-923-6
Sequence 6, Application US/10460923
Publication No. US20040009951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT FILING DATE: 2003-06-13
CURRENT APPLICATION NUMBER: US/10/460,923
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/388,513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472,952
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 219
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: mouse orthologue
US-10-460-923-6

Query Match 21.2%; Score 230; DB 15; Length 219;

Best Local Similarity 33.5%; Pred. No. 1.9e-17; Matches 67; Conservative 35; Mismatches 82; Indels 16; Gaps 8;

QY 5 LMRKRELYQKVR-----WAKGRREYLCYVKKRSDATSPSLDFGLRNKG-CHYE 58
DB 25 LLSBEERYSOFNQRYHLCYHGMK-PLYCYLSEFNQAPLK---GCLLSKQKQAE 80
QY 59 LLLRYISMDLDPGRCYRTWFTSPPCYDCARHVADELKGNPNLSRIFTARLYPCED 118
DB 81 ILFLDIRSMELSQ--VIITCYLTWSPCPCNCAMQLAEPKRPDLILHIYTSRLYFHWK 137
QY 119 RKAEPGLRLHAGVQIAIMTEKDYFCMNTFVENHSTPKAMEGIHNSVRLSROLR 178
DB 138 RPFQ-KGLCSLMOSGLIVDMDFPFTDCWTFV-NPKAPFPMKGLIISRTQRLHR 195
QY 179 ILPLVEVDLRLDAFRTLG 198
DB 196 I-KESWGLDVLVDFGLQL 214

RESULT 12

US-10-157-031-14
Sequence 14, Application US/10157031
Publication No. US20030108890A1
GENERAL INFORMATION:
APPLICANT: Baranova, A. V.
APPLICANT: Yankovsky, N. K.
APPLICANT: Kozlov, A. P.
APPLICANT: Lobachev, A. V.
APPLICANT: Krutovskaya, L. L.
TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences
FILE REFERENCE: 2760-103
CURRENT APPLICATION NUMBER: US/10/157,031
CURRENT FILING DATE: 2002-05-30
NUMBER OF SEQ ID NOS: 415
SOFTWARE: PatentIn version 3.1
SEQ ID NO 14
LENGTH: 236

TYPE: PRT
ORGANISM: Homo sapiens
US-10-157-031-14

Query Match 20.1%; Score 218.5; DB 14; Length 236;

Best Local Similarity 34.9%; Pred. No. 4e-16; Matches 44; Conservative 31; Mismatches 42; Indels 9; Gaps 4;

QY 35 RRDATSPSLDFGLR-----NKGK-HVELLFL-RYISPDMDLDPGRCYRVWTFSTMS 86
DB 33 RKEACLYEIKMGSRKIMWSGKNTTNHVEVNFIKFTSERDPHPSGCSITWFLMSWP 92
QY 87 CYDCARHVADELKGNPNLSRIFTARLYPCEDRAEDELRLHRAVQIAIMTFKXYF 146
DB 93 CWECQAIREPLSHPGVTLIVYARLFWMDDQ-NRQGLRDLVNSGVTIQIMKASEYH 151
QY 147 CWNTFV 152
DB 152 CWNRNV 157

RESULT 13

US-10-460-923-8
Sequence 8, Application US/10460923
Publication No. US20040009951A1
GENERAL INFORMATION:
APPLICANT: MALIM, Michael H.
APPLICANT: SHEEHY, Ann M.
APPLICANT: HARRIS, Reuben S.
APPLICANT: BISHOP, Kate N.
APPLICANT: NEUBERGER, Michael S.
APPLICANT: GADDIS, Nathan C.
APPLICANT: SIMON, James H.M.
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection
FILE REFERENCE: 22253-74380
CURRENT FILING DATE: 2003-06-13
CURRENT APPLICATION NUMBER: US/10/460,923
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/388,513
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 60/472,952
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 8
LENGTH: 236
TYPE: PRT
ORGANISM: Homo sapiens
US-10-460-923-8

Query Match 19.9%; Score 216.5; DB 15; Length 236;

Best Local Similarity 34.9%; Pred. No. 6.8e-16; Matches 44; Conservative 31; Mismatches 42; Indels 9; Gaps 4;

QY 35 RRDATSPSLDFGLR-----NKGK-HVELLFL-RYISPDMDLDPGRCYRVWTFSTMS 86
DB 33 RKEACLYEIKMGSRKIMWSGKNTTNHVEVNFIKFTSERDPHPSGCSITWFLMSWP 92
QY 87 CYDCARHVADELKGNPNLSRIFTARLYPCEDRAEDELRLHRAVQIAIMTFKDYF 146
DB 93 CWECQAIREPLSHPGVTLIVYARLFWMDDQ-NRQGLRDLVNSGVTIQIMKASEYH 151
QY 147 CWNTFV 152
DB 152 CWNRNV 157

RESULT 14

US-09-966-880A-36
Sequence 36, Application US/09966880A
Patent No. US20020164743A1
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi

; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966, 880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 36
 ; LENGTH: 229
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; US-09-966-880A-36

Query Match 19.4%; Score 211; DB 9; Length 229;
 Best Local Similarity 37.1%; Pred. No. 2.7e-15;
 Matches 49; Conservative 24; Mismatches 49; Indels 10; Gaps 4;

QY 24 RRETYLCYVK--RDSATSFSLDFGLRNKNGHYELLFL-RYISDMDLDPGRCYRVW 80
 DB 33 RKETCLLYEINMGGRHSV-----WRHTSGNTSNHVENFLEKTERFRFENTRCSTW 86
 QY 81 FTSMSPCYDCARVADFLRGNPNLSRIFARLYFCEDRAEPEGARRLRAGVOIAIMT 140
 DB 87 FLMSPPGECSPRAITELSRHPYTLFIYARLYHHTDOR-NROGLRDLISSGVYIQTMT 145
 QY 141 FXDYFCMNTFV 152
 DB 146 EQEYCYCMRNFV 157

RESULT 15
 US-10-104-047-3729
 ; Sequence 3729, Application US/10104047
 ; Publication No. US20030236392A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: NO. US20030236392A1e1 full length cDNA
 ; FILE REFERENCE: H1-A0105
 ; CURRENT APPLICATION NUMBER: US/10/104,047
 ; CURRENT FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER:
 ; PRIOR FILING DATE:
 ; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3729
 ; LENGTH: 127
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-104-047-3729

Query Match 18.2%; Score 198; DB 15; Length 127;
 Best Local Similarity 36.8%; Pred. No. 3.7e-14;
 Matches 46; Conservative 19; Mismatches 54; Indels 6; Gaps 4;

QY 61 ELRYISPM-DLDPGRCYRVWFTSMSPCYDCARVADFLRGNPNLSRIFARLYFCEDR 119
 DB 3 FFWFSKMKLHRDQREYEWITWSMSECTKCTRDMAFLAEDPKVTLTFVARLYYFWDP 62
 QY 120 KAEPEGIRRL--HRAG--VOIAIMTFKDYFYCMNTFVENHERTFKAMGGLHNSVLSRQ 175
 DB 63 DYQ-EALRSICQKRDGFRATMKIMNYDEFQHCWSKFFVSGRELFEPMNNLPKYIILHIM 121
 QY 176 LRRL 180
 DB 122 LGRL 126

Search completed: March 18, 2004, 06:09:26
 Job time : 57 secs